

IN THE CLAIMS:

The following is a complete listing of the claims in this application, reflects all changes currently being made to the claims, and replaces all earlier versions and all earlier listings of the claims:

Claims 1-15 (Canceled)

Claim 16 (Currently Amended): A printer comprising:

a control unit having a first memory for storing image data with a first orientation generated based on print data received from an external apparatus and a transfer unit for performing DMA-transferring of the image data with the first orientation read from the first memory; and

an engine unit having a second memory for storing the image data received from said control unit and a print engine for printing the image data stored in ~~the~~ said second memory,

~~wherein said control unit includes a transfer unit for transferring the image data read from the first memory to the second memory, and~~

wherein ~~the~~ said transfer unit includes a third memory for storing the image data with the first orientation read from the first memory, and reads ~~rotated~~ the image data from ~~the~~ said third memory as image data with a second orientation for performing image rotation and transfers the ~~rotated~~ read image data with the second orientation to ~~the~~ said second memory ~~without transferring the rotated image data to the first memory, or reads the image data, without~~

~~rotation, from the third memory and transfers the read image data to the second memory without transferring the read image data to the first memory, depending on a print sheet.~~

Claim 17. (Previously Presented): A printer according to claim 16, further comprising a parallel interface for connecting said control unit and said engine unit to each other.

Claim 18. (Currently Amended): A printer according to claim 16, wherein ~~the~~ said transfer unit includes a plurality of the third memories and wherein ~~the~~ said transfer unit transfers one body of image data from one of the plurality of third memories to ~~the~~ said second memory, while other image data from ~~the~~ said first memory is stored in another of the plurality of third memories.

Claim 19. (Currently Amended): A control method carried out in a printer that comprises a control unit having a first memory for storing image data with a first orientation generated based on print data received from an external apparatus and a transfer unit for performing DMA-transferring of the image data with the first orientation read from the first memory, and an engine unit having a second memory for storing the image data received from the control unit and a print engine for printing the image data stored in the second memory, said method comprising:

a storing step of storing the image data with the first orientation read from the first memory in a third memory; and

a controlling step of reading ~~rotated~~ the image data from the third memory as  
image data with a second orientation for performing image rotation and transferring the ~~rotated~~  
read image data with the second orientation to the second memory ~~without transferring the~~  
~~rotated image data to the first memory, or reading the image data, without rotation, from the third~~  
~~memory and transferring the read image data to the second memory without transferring the read~~  
~~image data to the first memory, depending on a print sheet.~~

Claim 20. (Previously Presented): A method according to claim 19, wherein  
the printer further comprises a parallel interface for connecting the control unit and the engine unit  
to each other.

Claim 21. (Previously Presented): A method according to claim 19, wherein  
the printer includes a plurality of the third memories, and wherein said transferring step transfers  
one image data from one of the plurality of third memories to the second memory, while said  
storing step stores another image data from the first memory in another of the plurality of third  
memories.

Claim 22. (Currently Amended): A printer comprising:

a control unit having a first memory for storing image data for a portrait print  
sheet generated based on print data received from an external apparatus and a transfer unit for  
performing DMA-transferring of the image data for the portrait print sheet read from said first  
memory; and

an engine unit having a second memory for storing the image data received from said control unit and a print engine for printing the image data stored in ~~the~~ said second memory,

~~wherein said control unit includes a transfer unit for transferring the image data read from the first memory to the second memory, and~~

wherein ~~the~~ said transfer unit includes a third memory for storing the image data for the portrait print sheet read from ~~the~~ said first memory, and reads ~~rotated~~ the image data from ~~the~~ said third memory as image data for a landscape print sheet and transfers the ~~rotated~~ read image data for the landscape print sheet to ~~the~~ said second memory without transferring the ~~rotated~~ read image data to ~~the~~ said first memory if printing is performed on a landscape print sheet, and reads the image data, ~~without rotation,~~ from ~~the~~ said third memory as image data for the portrait print sheet and transfers the read image for the portrait print sheet data to ~~the~~ said second memory ~~without transferring the read image data to the first memory~~ if printing is performed on a portrait print sheet.

Claim 23. (Previously Presented): A printer according to claim 22, further comprising a parallel interface for connecting said control unit and said engine unit to each other.

Claim 24. (Currently Amended): A printer according to claim 22, wherein ~~the~~ said transfer unit includes a plurality of ~~the~~ said third memories and wherein ~~the~~ said transfer unit transfers one body of image data from one of the plurality of third memories to ~~the~~ said second

memory, while other image data from ~~the~~ said first memory is stored in another of the plurality of third memories.

Claim 25. (Previously Presented): A printer according to claim 22, wherein said engine unit informs said control unit whether the rotation is required.

Claim 26. (Currently Amended): A control method carried out in a printer that comprises a control unit having a first memory for storing image data for a portrait print sheet generated based on print data received from an external apparatus and a transfer unit for performing DMA-transferring of the image data for the portrait print sheet read from the first memory, and an engine unit having a second memory for storing the image data received from the control unit and a print engine for printing the image data stored in the second memory, said method comprising:

a storing step of storing the image data for the portrait print sheet read from the first memory in a third memory;

a transferring step of reading ~~rotated~~ the image data from the third memory as image data for a landscape print sheet and transferring the ~~rotated~~ read image data for the landscape print sheet to the second memory without transferring the ~~rotated~~ read image data to the first memory if printing is performed on a landscape print sheet, and reading the image data; ~~without rotation~~; from the third memory as image data for the portrait print sheet and transferring the read image data for the portrait print sheet to the second memory ~~without transferring the read image data to the first memory~~ if printing is performed on a portrait print sheet.

Claim 27. (Previously Presented): A method according to claim 26, wherein the printer further comprises a parallel interface for connecting the control unit and the engine unit to each other.

Claim 28. (Previously Presented): A method according to claim 26, wherein the printer includes a plurality of the third memories, and wherein said transferring step transfers one body of image data from one of the plurality of third memories to the second memory, while said storing step stores other image data from the first memory in another of the plurality of third memories.

Claim 29 (Previously Presented): A method according to claim 26, further comprising the step of informing from the engine unit to the control unit whether the rotation is required.